



03.01-12/16/94-00515

OHM Remediation Services Corp.

December 16, 1994

Commander  
Department of the Navy  
Atlantic Division  
Naval Facilities Engineering Command  
Attn: Mr. David M. Forsythe, Remedial Project Manager, Code 18224  
1510 Gilbert Street  
Norfolk, Virginia 23511-2699

RE: Draft Dual Phase Vapor Extraction Feasibility Study Results, Camp Allen Soil AND Groundwater Remediation, Areas A and B, Norfolk Naval Base, Norfolk, Virginia, LANTDIV Contract No. N62470-93-D3032, Delivery Order 0008;  
OHM Project 15856

Dear Mr. Forsythe:

OHM is pleased to present the enclosed one copy of the Draft Dual Phase Vapor Extraction Feasibility Study Results for your review and comment. As you will find, the pilot test results do support Dual Phase Vacuum Extraction as a remediation technology for the Camp Allen Landfill Area A.

Evaluation of the pilot test results further shows that the basic design premise anticipated for the full scale design will be significantly different from that assumed in the Draft Final Remedial Design Work Plan (Baker, January 28, 1994). The basic design proposed by Baker consisted of seven vertical DPVE wells. Because of the limited volume of propagation (e.g., pneumatic radius of influence of 15 feet or less) determined from the pilot test, this preliminary design scenario would now require approximately 89 wells to remediate the defined areas. As such, this design approach would not be cost effective. Therefore, alternative design approaches are being considered.

A preliminary evaluation of alternative design approaches was conducted during preparation of this submittal (see Section 4.3) and suggests that the use of horizontal wells in combination with vertical dewatering wells would be one recommended alternative design approach. With the Navy's permission, OHM would like to continue advancement of this new design approach to full-scale.

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Due to this perceived basic design modification based on the outcome of the pilot test, a significant full scale design effort is anticipated above that originally planned. OHM also recommends that 35-percent and 60-percent design review meetings be scheduled among all review parties to support communications and promote an understanding of the DPVE design maturation.

Due to the new information presented in this correspondence, OHM would like to set up a conference call with the appropriate parties at your request as soon as all parties have had the opportunity to review this report. In the meantime, please call me with any questions or concerns at 412/963-2300.

Sincerely,

A handwritten signature in black ink, appearing to read "Jennifer Garrett", with a stylized flourish at the end.

Jennifer Garrett, P.E.  
Project Manager

JG:dmb

Enclosures

pc: R. Jasaitis, OHM - 1 copy  
S. Lambiotte, SWEC - 1 copy  
D. Miller, OHM - 1 copy  
T. Sharpless, OHM - 1 copy  
P. Verma, OHM - 1 copy  
D. Watt, OHM - 1 copy  
R. Wolfson, OHM - 1 copy

OHM Project 15856 - 1 copy  
G. Ruggabar, Baker - 2 copies  
Theresa Thurlow, ROICC - 1 copy  
LANTDIV Code 05 - 1 copy  
LANTDIV Code 04 - 2 copies  
COMNAVBASE Code N4 - 2 copies